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United States Patent [19]**Garner et al.**[11] **Patent Number:** **5,639,940**[45] **Date of Patent:** **Jun. 17, 1997**

- [54] **PRODUCTION OF FIBRINOGEN IN TRANSGENIC ANIMALS**
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- [58] **Field of Search** 800/2; 435/172.1; 435/172.3; 69.1; 69.6; 69.7; 69.8; 71.1; 536/23.1; 23.4; 23.5; 24.1

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Materials and methods for producing fibrinogen in transgenic non-human mammals are disclosed. DNA segments encoding A α , B β and γ chains of fibrinogen are introduced into the germ line of a non-human mammal, and the mammal or its female progeny produces milk containing fibrinogen expressed from the introduced DNA segments. Non-human mammalian embryos and transgenic non-human mammals carrying DNA segments encoding heterologous fibrinogen polypeptide chains are also disclosed.

33 Claims, 5 Drawing Sheets

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